

Form PTO-1449 (modified)

## List of Patents and Publications for Applicant's

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No. 4100.003200	Serial No. 10/625,839
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## Applicants

George J. Brewer, Sofia D. Merajver and Dimitri Coucouvanis

Filing Date:  
July 23, 2002Group:  
1614

U.S. Patent Documents <i>See Page 1 and 2</i>	Foreign Patent Documents <i>See Page 2</i>	Other Art <i>See Pages 2 - 14</i>
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## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
Z-F	A1	4,762,705	08/09/88	Rubin	424	85	
	A2	5,057,302	10/15/91	Johnson <i>et al.</i>	424	1.1	
	A3	5,100,885	03/31/92	Abrams <i>et al.</i>	514	184	
	A4	5,169,858	12/08/92	Rubin	514	365	
	A5	5,385,933	01/31/95	Rabinovitz <i>et al.</i>	514	499	
	A6	5,563,132	10/08/96	Bodeness	514	185	
	A7	5,697,902	12/16/97	Goldenberg	604	49	
	A8	5,565,491	10/15/6	Schieven	514	492	
	A9	5,512,559	04/30/96	Skalkos <i>et al.</i>	514	185	
	A10	5,443,816	08/22/95	Zamora <i>et al.</i>	424	1.69	
	A11	5,391,547	02/21/95	Cole <i>et al.</i>	514	184	
	A12	4,952,607	08/28/90	Sorenson <i>et al.</i>	514	589	
	A13	4,766,226	08/23/88	Hill <i>et al.</i>	556	18	
	A14	4,678,667	07/07/87	Meares <i>et al.</i>	424	85	
	A15	RE 35,458	02/18/97	Azuara	556	116	
	A16	5,112,598	05/12/92	Biesalski	424	46	
	A17	5,527,533	06/18/96	Tso <i>et al.</i>	424	422	
	A18	5,556,611	09/17/96	Biesalski	424	46	
	A19	5,583,153	12/10/96	Brahn	514	449	
Z-F	A20	5,970,974	10/26/99	van der Linden <i>et al.</i>	128	200.16	

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Z-F	A21	5,954,047	09/21/99	Armer <i>et al.</i>	128	200.23	
	A22	5,950,619	09/14/99	van der Linden <i>et al.</i>	128	200.16	
	A23	5,698,155	12/16/97	Grosswald <i>et al.</i>	264	402	
	A24	5,639,725	06/17/97	O'Reilly <i>et al.</i>	514	12	
	A25	4,765,539	08/23/88	Noakes <i>et al.</i>	239	3	
	A26	3,916,899	11/04/75	Theeuwes <i>et al.</i>	128	260	
	A27	3,845,770	11/05/74	Theeuwes <i>et al.</i>	128	260	
	A28	4,604,278	08/05/86	Reilly <i>et al.</i>	423	517	
	A29	4,343,746	08/10/82	Anglin <i>et al.</i>	556	57	
Z-F	A30	2,909,541	10/20/59	Hugel	260	429	
Z-F	A31	6,703,050	03/09/04	Brewer <i>et al.</i>	424	641	

### Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
Z-F	B1	EP 1 107 795 B1	Nov. 27, 2002	EP			
	B2	EP 1 234 585 A2	Aug. 28, 2002	EP			
	B3	WO 00/13712	Mar. 16, 2000	PCT			
Z-F	B4	WO 2004/009072	Jan. 29, 2004	PCT			

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### Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
Z-F	C1	Allen and Solomons, "Normal Intestinal Mechanisms in the Absorption of Copper," In: Absorption and Malabsorption of Mineral Nutrients, Solomons and Rosenberg, Eds., Alan R. Liss, Inc., New York, 12:199-229, 1984.
	C2	Alpem-Erlan and Brem, "Angiogenesis in Human Brain Tumors: Inhibition by Copper Depletion," <i>Neurological Surgery</i> , pp. 498-500, publication date unknown.
	C3	Brem <i>et al.</i> , "Anticopper Treatment Inhibits Pseudopodial Protrusion and the Invasive Spread of 9L Gliosarcoma Cells in the Rat Brain," <i>Neurosurgery</i> , 26:391-396, 1990.
	C4	Brem <i>et al.</i> , "Inhibition of Angiogenesis and Tumor Growth in the Brain. Suppression of Endothelial Cell Turnover by Penicillamine and the Depletion of Copper, an Angiogenic Cofactor," <i>Am. J. Pathol.</i> , 137(5):1121-1142, 1990.
	C5	Brem <i>et al.</i> , "Tetrathiomolybdate, A Chelator of Copper, Reduces Intracerebral Peritumoral Edema in Rats," <i>Proc. Amer. Assoc. Cancer Res.</i> , 33:76, Abstract 455, 1992.
	C6	Bremner <i>et al.</i> , "Copper Metabolism in Rats Given di- or trithiomolybdates," <i>J. Inorg. Biochem.</i> , 16: 109, 1982.
	C7	Brewer and Yuzbasiyan-Gurkan, "Wilson Disease," <i>Medicine</i> , 71(3):139-164, 1992.
	C8	Brewer and Yuzbasiyan-Gurkan, "Wilson's Disease," In: Textbook of Clinical Neuropharmacology and Therapeutics, 2nd Edition, Klawans <i>et al.</i> , Eds., Raven Press, New York, pp. 191-205, 1992.
	C9	Brewer and Yuzbasiyan-Gurkan, "Wilson's Disease: An Update, with Emphasis on New Approaches to Treatment," <i>Dig. Dis.</i> , 7(4):178-193, 1989.
	C10	Brewer, "Interactions of Zinc and Molybdenum With Copper in Therapy of Wilson's Disease," <i>Nutr.</i> , 11(1 Suppl):114-116, 1995.
	C11	Brewer, "Practical Recommendations and New Therapies for Wilson's Disease," <i>Drugs</i> , 50(2):240-249, 1995.
	C12	Brewer, "Thiomolybdates in the Treatment of Wilson's Disease," <i>Arch. Neurol.</i> , 49:132-133, 1992.
	C13	Brewer, "Zinc in the Treatment of Wilson's Disease," <i>Nutrition and the MD.</i> 19(12), 1993.
	C14	Brewer <i>et al.</i> , "Treatment of Wilson's disease with Ammonium Tetrathiomolybdate. I Initial Therapy in 17 Neurologically Affected Patients," <i>Arch. Neurol.</i> , 51(6):545-554, 1994.
Z-F	C15	Brewer <i>et al.</i> , "Use of Zinc Acetate to Treat Copper Toxicosis in Dogs," <i>JAVMA</i> , 201:564-568, 1992.

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Z. F	C16	Brewer <i>et al.</i> , "Treatment of Wilson's Disease with Zinc XIII: Therapy with Zinc in Presymptomatic Patients from the Time of Diagnosis," <i>J. Lab. Clin. Med.</i> , 123:849-858, 1994.
	C17	Brewer <i>et al.</i> , "Initial therapy of Wilson's Disease Patients with Tetrathiomolybdate," <i>Arch. Neurol.</i> , 48(1):42-47, 1991.
	C18	Brewer <i>et al.</i> , "Treatment of Wilson's Disease with Zinc III. Prevention of Reaccumulation of Hepatic Copper," <i>J. Lab. Clin. Med.</i> , 109:526-531, 1987.
	C19	Brewer <i>et al.</i> , "Oral Zinc Therapy for Wilson's Disease," <i>Annals. Int. Med.</i> , 99:314-320, 1983.
	C20	Brewer <i>et al.</i> , "Treatment of Wilson's Disease with Zinc: IV. Efficacy Monitoring Using Urine and Plasma Copper," <i>Proc. Soc. Exper. Biol. Med.</i> , 184:446-455, 1987.
	C21	Brewer <i>et al.</i> , "Treatment of Wilson's Disease with Ammonium Tetrathiomolybdate II. Initial Therapy in 33 Neurologically Affected Patients and Follow-up on Zinc Therapy," <i>Arch. Neurol.</i> , 53:1017-1025, 1996.
	C22	Brewer <i>et al.</i> , "The Use of <sup>64</sup> Copper Measurements to Diagnose Canine Copper Toxicosis," <i>J. Vet. Int. Med.</i> , 6:41-43, 1992.
	C23	Brewer <i>et al.</i> , "Worsening of Neurological Syndrome Upon Initial Treatment of Wilson's Disease Patients with Penicillamine," <i>Arch. Neurol.</i> , 44:490-493, 1987.
	C24	Brewer <i>et al.</i> , "Development of Neurologic Symptoms in a Patient with Asymptomatic Wilson's Disease Treated with Penicillamine," <i>Arch. Neurol.</i> , 51:304-305, 1994.
	C25	Brewer <i>et al.</i> , "Zinc Therapy of Wilson's Disease VIII. Dose Response Studies," <i>J. Trace Elem. Exp. Med.</i> , 3:227-234, 1990.
	C26	Brewer <i>et al.</i> , "Treatment of Wilson's Disease with Zinc: IX. Response of Serum Lipids," <i>J. Lab. Clin. Med.</i> , 118:466-470, 1991.
	C27	Brewer <i>et al.</i> , "Treatment of Wilson's Disease with Zinc XI. Interaction with Other Anticopper Agents," <i>J. Amer. Coll. Nut.</i> , 12(1):26-30, 1993.
	C28	Brewer <i>et al.</i> , "Treatment of Wilson's Disease with Zinc XII. Dose Regimen Requirements," <i>Amer. J. Med Sci.</i> , 305(4):199-202; 1993.
Z. F	C29	Brewer <i>et al.</i> , "Molecular Genetics and Zinc-Copper Interactions in Human Wilson's Disease and Canine Copper Toxicosis," In: <i>Essential and Toxic Trace Elements in Human Health and Disease: An Update</i> , Prasad, Ed., Allan R. Liss, New York, PCBR 380:129-145, 1993.

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	C31	Brewer <i>et al.</i> , "Treatment of Wilson's Disease," <i>Sem. Neural.</i> , 7:209-220, 1987.
	C32	Coucovanis <i>et al.</i> , "An Inorganic Functional Group Approach to the Systematic Synthesis and Reactivity Studies of Binuclear Mo/S and Mo/S/O Complexes," <i>Polyhedron</i> , 8(13/14):1705-1716, 1989.
	C33	Coucovanis <i>et al.</i> , "Dinuclear Fe-Mo-S Complexes Containing the FeS <sub>2</sub> Mo Core. Syntheses, Ground-State Electronic Structures, and Crystal and Molecular Structures of the [(C <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> P] <sub>2</sub> [C <sub>6</sub> -H <sub>5</sub> ) <sub>2</sub> FeS <sub>2</sub> MoS <sub>2</sub> ], [(C <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> N] <sub>2</sub> [(C <sub>6</sub> H <sub>5</sub> S) <sub>2</sub> FeS <sub>2</sub> WS <sub>2</sub> ], and [(C <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> P] <sub>2</sub> [(S) <sub>2</sub> FeS <sub>2</sub> MS <sub>2</sub> ] (M = Mo, W) Complexes," <i>Inorg. Chem.</i> , 22:293-308, 1983.
	C34	Coucovanis <i>et al.</i> , "Heterodinuclear Di- $\mu$ -Sulfido Bridged Dimers Containing Iron and Molybdenum or Tungsten. Structures of (PhP) <sub>2</sub> (FeMS <sub>9</sub> ) Complexes (M = Mo, W)," <i>J. Am. Chem. Soc.</i> , 102:1730-1732, 1980.
	C35	Coucovanis <i>et al.</i> , "Successful Isolation of a Reduced Tetrathiometallate Complex. Synthesis and Structural Characterization of the [(MoS <sub>4</sub> ) <sub>2</sub> Fe] <sup>3-</sup> Trianion," <i>J. Am. Chem. Soc.</i> , 102:6644-6646, 1980.
	C36	Coucovanis <i>et al.</i> , "Synthesis and Structural Characterization of [(No) <sub>2</sub> FeS <sub>2</sub> MoS <sub>2</sub> ] <sup>2-</sup> A Dinitrosyl Complex Containing the FeS <sub>2</sub> MoS <sub>2</sub> Core," <i>Inorg. Chim. Acta</i> , 53:L135-L137, 1981.
	C37	Coucovanis <i>et al.</i> , "Synthesis of Thiomolybdenyl Complexes with [Mo <sub>2</sub> (S) <sub>2</sub> (O) <sub>2</sub> ] <sup>2+</sup> Cores and Substitutionally Labile Ligands. Crystal and Molecular Structure of the [Mo <sub>2</sub> O <sub>2</sub> S <sub>4</sub> (DMF) <sub>3</sub> ] Complex," <i>Inorg. Chem.</i> , 27:3272-3273, 1988.
	C38	Coucovanis <i>et al.</i> , "Trinuclear Fe-M-S Complexes Containing a Linear Fe-M-Fe Array and a Bridging S <sub>2</sub> MS <sub>2</sub> Unit. Electronic Structures and Crystal and Molecular Structures of the [(C <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> P] <sub>2</sub> [Cl <sub>2</sub> FeS <sub>2</sub> MS <sub>2</sub> FeCl <sub>2</sub> ] (M = Mo, W) Complexes," <i>Inorg. Chem.</i> , 23:741-749, 1984.
	C39	Coucovanis, "Fe-M-S Complexes Derived from MS <sub>4</sub> <sup>2-</sup> Anions (M = Mo, W) and Their Possible Relevance as Analogues for Structural Features in the Mo Site of Nitrogenase," <i>Acc. Chem. Res.</i> , 14:201-209, 1981.
ZF	C40	Coucovanis, "Syntheses, Structures, and Reactions of Binary and Tertiary Thiomolybdate Complexes Containing the (O)Mo(S <sub>x</sub> ) and (S)Mo(S <sub>x</sub> ) Functional Groups (x = 1,2,4)," <i>Adv. Inorg. Chem.</i> , 45:1-73, 1998.

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Z-F	C41	Engleka and Maciag, "Inactivation of Human Fibroblast Growth Factor-1 (FGF- 1) Activity by Interaction with Copper Ions Involves FGF-1 Dimer Formation Induced by Copper-Catalyzed Oxidation," <i>J. Biol. Chem.</i> , 267:11307-11315, 1994.
	C42	Fell <i>et al.</i> , "Gut Pathology of Rats Dosed with Tetrathiomolybdate," <i>J. Corn. Pathol.</i> , 89:495, 1979.
	C43	Folkman, "Angiogenesis," <i>The Journal of Biological Chemistry</i> , 267(16):10931-1 0934, 1992.
	C44	Folkman and Klagsbrun, "Angiogenic Factors," <i>Science</i> , 23:442-447, 1987.
	C45	Folkman, "Angiogenesis in Cancer, Vascular, Rheumatoid and Other Disease," <i>Nature Med.</i> , 1:27-31, 1995.
	C46	Folkman, "The Influence of Angiogenesis Research on Management of Patients with Breast Cancer," <i>Breast Cancer Res. Treat.</i> , 36(2):109-118, 1995.
	C47	Folkman, "Anti Angiogenic Therapy," In: <i>Cancer: Principles and Practice of Oncology</i> , Lippincott-Raven Publishers, pp. 3075-3085, 1997.
	C48	Gooneratne <i>et al.</i> , "An Investigation of the Effects of Inn Venous Administration of Thiomolybdate on Copper Metabolism in Chronic Cu-Poisoned Sheep," <i>Br. J. Nutr.</i> , 46:469, 1981.
	C49	Gooneratne <i>et al.</i> , "Intravenous Administration of Thiomolybdate for the Prevention and Treatment of Chronic Copper Poisoning in Sheep," <i>Br. J. Nutr.</i> , 46:457, 1981.
	C50	Gross <i>et al.</i> , "Inhibition of Basic Fibroblast Growth Factor-Induced Angiogenesis and Glioma Tumor Growth In Vivo in Copper Depleted Rats," <i>Proc. Amer. Assoc. Cancer Res.</i> , 32:57, Abstract 338, 1991.
	C51	Gullino, "Considerations on the Mechanism of the Angiogenic Response," <i>Anticancer Res.</i> , 6(2):153-158, 1986.
	C52	Hadjikyriacou and Coucouvanis, "New Members of the $[Mo_2(S)_n(S_2)_{6-n}]^{2-}$ Series. Synthesis, Structural Characterization, and Properties of the $[Mo_2S_9]^{2-}$ , $[Mo_2S_7]^{2-}$ and $[Mo_2S_6]^{2-}$ Thioanions," <i>Inorg. Chem.</i> , 26:2400-2408, 1987.
	C53	Hill <i>et al.</i> , "Treatment of Wilson's Disease with Zinc II. Validation of Oral $^{64}\text{Cu}$ Uptake with Copper Balance," <i>Am. J. Med. Sci.</i> , 12:344, 1986.
Z-F	C54	Hill <i>et al.</i> , "Treatment of Wilson's Disease with Zinc, I: Oral Zinc Therapy Regimens," <i>Hepatology</i> , 7:522-528, 1987.

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<i>Eif</i>	C55	Hourani and Demopoulos, "Inhibition of S-91 Mouse Melanoma Metastases and Growth by D-Penicillamine," <i>Laboratory Investigation</i> , 21(5):434-438, 1969.
	C56	Kanatzidis and Coucouvanis, "Structure of Bis(tetraethylammonium) Tetrathiomolybdate(VI), 2C <sub>8</sub> H <sub>20</sub> N <sup>+</sup> MoS <sub>4</sub> <sup>2-</sup> ," <i>Acta Cryst.</i> , C39:835-838, 1983.
	C57	Lee <i>et al.</i> , "The Treatment of Wilson's Disease with Zinc VII. Protection of the Liver for Copper Toxicity by Zinc Induced Metallothionein in a Rat Model," <i>J. Lab. Clin. Med.</i> , 114:639-645, 1989.
	C58	Marshall <i>et al.</i> , "Phase I Trial of Orally Administered Pentosan Polysulfate in Patients with Advanced Cancer," <i>Clin. Cancer Res.</i> , 3:2347-2354, 1997.
	C59	Merajver <i>et al.</i> , "Copper Depletion as an Anti-Angiogenic Strategy in HER2-neu Transgenic Mice," Proceedings of Special AACR Conference on Angiogenesis and Cancer, Abstract #B-II, January 22-24, 1998.
	C60	Merajver, "Phase I Study of Tetrathiomolybdate in Metastatic Cancer," NIH Grant No. SR03CA77122-02.
	C61	Mills <i>et al.</i> , "Effects of Molybdate, Sulfide, and Tetrathiomolybdate on Copper Metabolism in Rats," <i>J. Inorg. Biochem.</i> , 14:189, 1981.
	C62	Mills <i>et al.</i> , "Copper and Molybdenum Absorption by Rats Given Ammonium Tetrathiomolybdate," <i>J. Inorg. Biochem.</i> , 14: 163, 1981.
	C63	Parke <i>et al.</i> , "Characterization and Quantification of Copper Sulfate-Induced Vascularization of the Rabbit Cornea," <i>Am. J. Pathol.</i> , 130:173-178; 1988.
	C64	Patstone and Maher, "Copper and Calcium Binding Motifs in the Extracellular Domains of Fibroblast Growth Factor Receptors," <i>J. Biol. Chem.</i> , 271 :3343-3346, 1996.
	C65	Raju <i>et al.</i> , Ceruloplasmin, Copper Ions, and Angiogenesis," <i>J. Natl. Cancer Inst.</i> , 69:1183-1188, 1982.
	C66	Schapira and Schapira, "Use of Ceruloplasmin Levels to Monitor Response to Therapy and Predict Recurrence of Breast Cancer," <i>Breast Cancer Res. Treat.</i> , 3:223-224, 1983.
	C67	Schuschke <i>et al.</i> , "Short-Tenn Dietary Copper Deficiency does not Inhibit Angiogenesis in Tumours Implanted in Striated Muscle," <i>Br. J. Cancer</i> , 66:1059-1064, 1992.
<i>Zef</i>	C68	Shing, "Heparin-Copper Biaffinity Chromatography of Fibroblast Growth Factors," <i>J. Biol. Chem.</i> , 263:9059-9062, 1988.

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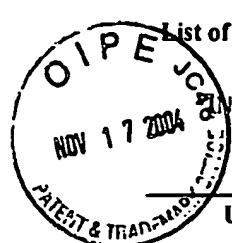
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George J. Brewer, Sofia D. Merajver and Dimitri  
CoucouvanisFiling Date:  
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DATE CONSIDERED:

7/17/06

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.